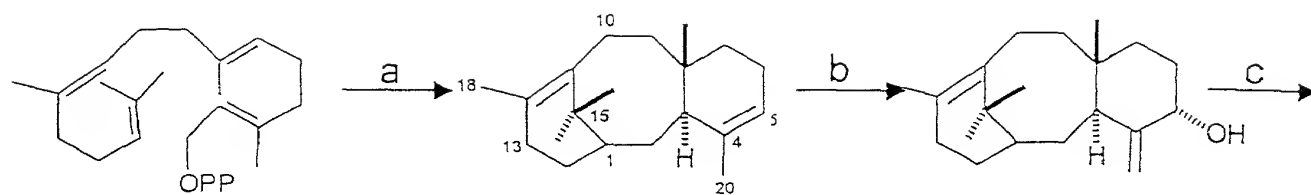


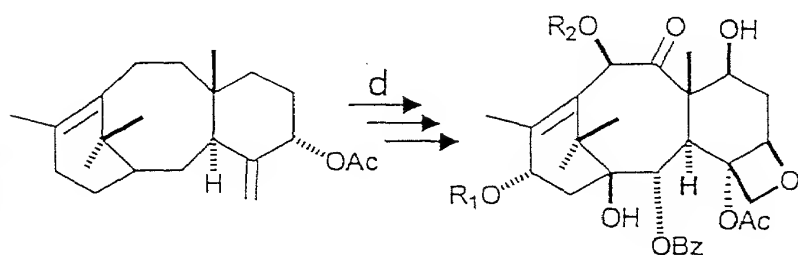
Figure 1



geranylgeranyl diphosphate

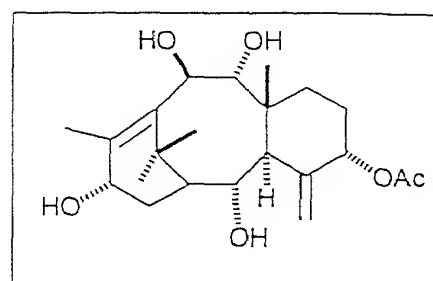
taxa-4(5),11(12)-diene

taxa-4(20),11(12)-dien-5 α -ol



taxa-4(20),11(12)-dien-5 α -yl acetate

e 10-deacetylbaccatin III:
 $R_1 = H, R_2 = H$
 baccatin III:
 $R_1 = H, R_2 = Ac$
 Taxol:
 $R_1 = N\text{-}Bz \text{ phenylisoserinyl}$
 $R_2 = Ac$



putative taxadien-pentaol
 monoacetate derived from
 taxadien-5 α -yl acetate

Figure 2

Tryptic Peptide Fragment	Peptide Sequence
SEQ ID NO: 29	TTLQLSSIDNLPGVR
SEQ ID NO: 30	ILVYYPPFAGR
SEQ ID NO: 31	FTCGGFVVGVSF
SEQ ID NO: 32	KGLAEIARGEVK
SEQ ID NO: 33	NLPNDTNPSSGYYGN

Figure 3

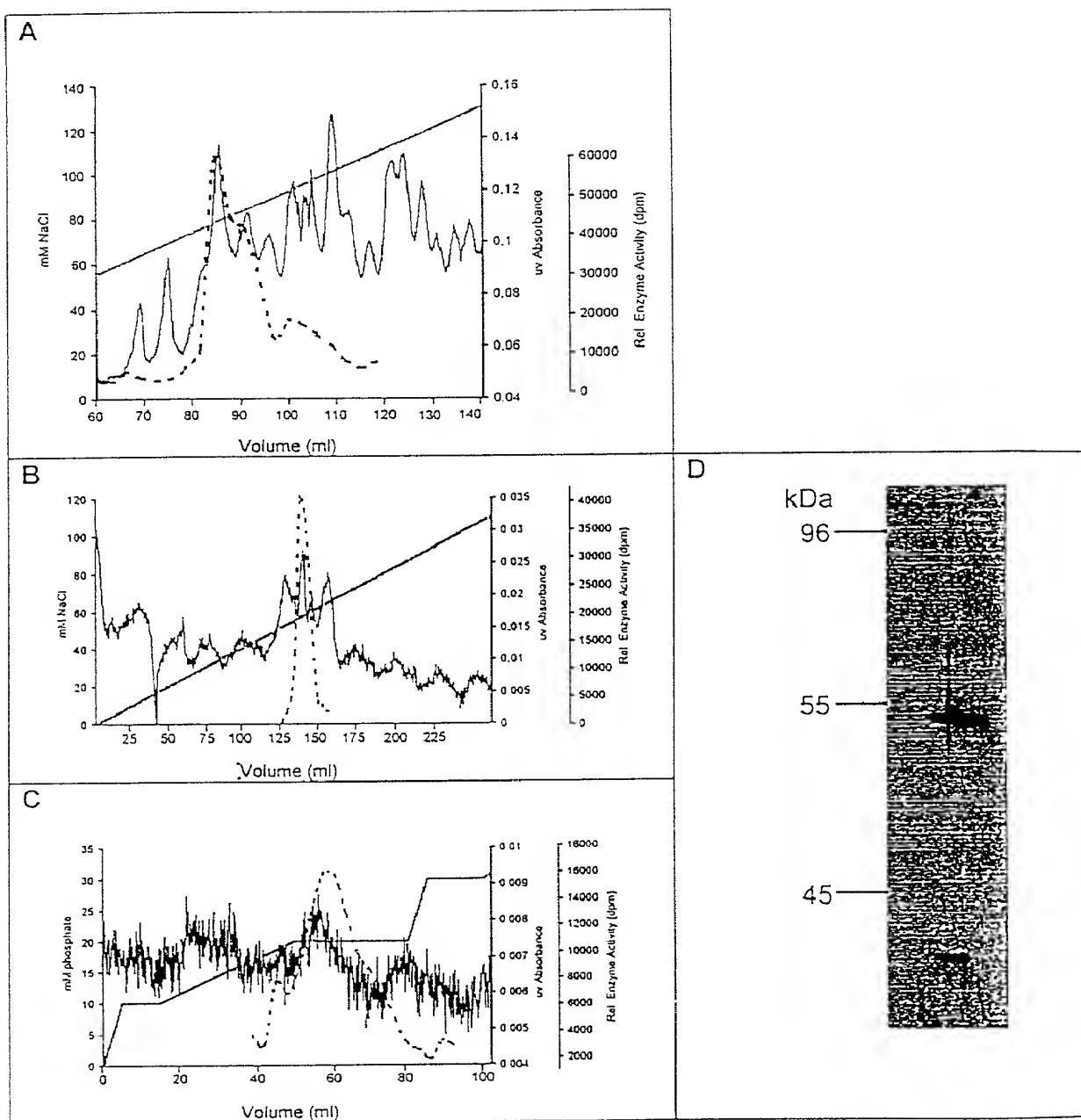


Figure 4.

FROM PEPTIDE FRAGMENT SEQUENCE 2

NH2- I L V Y Y P P -COOH
5' ATI CTI GTI TAT TAT CCI CC 3'

T C C C C
A A

AT-FOR1
(SEQ ID NO: 34)

NH2- Y Y P P F A G -COOH
5' TAT TAT CCI CCI TTT GCI GG 3'

C C C C C C
A A A

AT-FOR2
(SEQ ID NO: 35)

FROM SEQUENCE HOMOLOGY CONSIDERATIONS

NH2- F Y P F A G R -COOH
5' TTC TAT CCI TTC GCI GGI AG 3'

T C T C C
A A

AT-FOR3
(SEQ ID NO: 36)

NH2- Y Y P L A G R -COOH
5' TAC TAT CCI TTI GCI GGI AG 3'

T C C C C C
A A

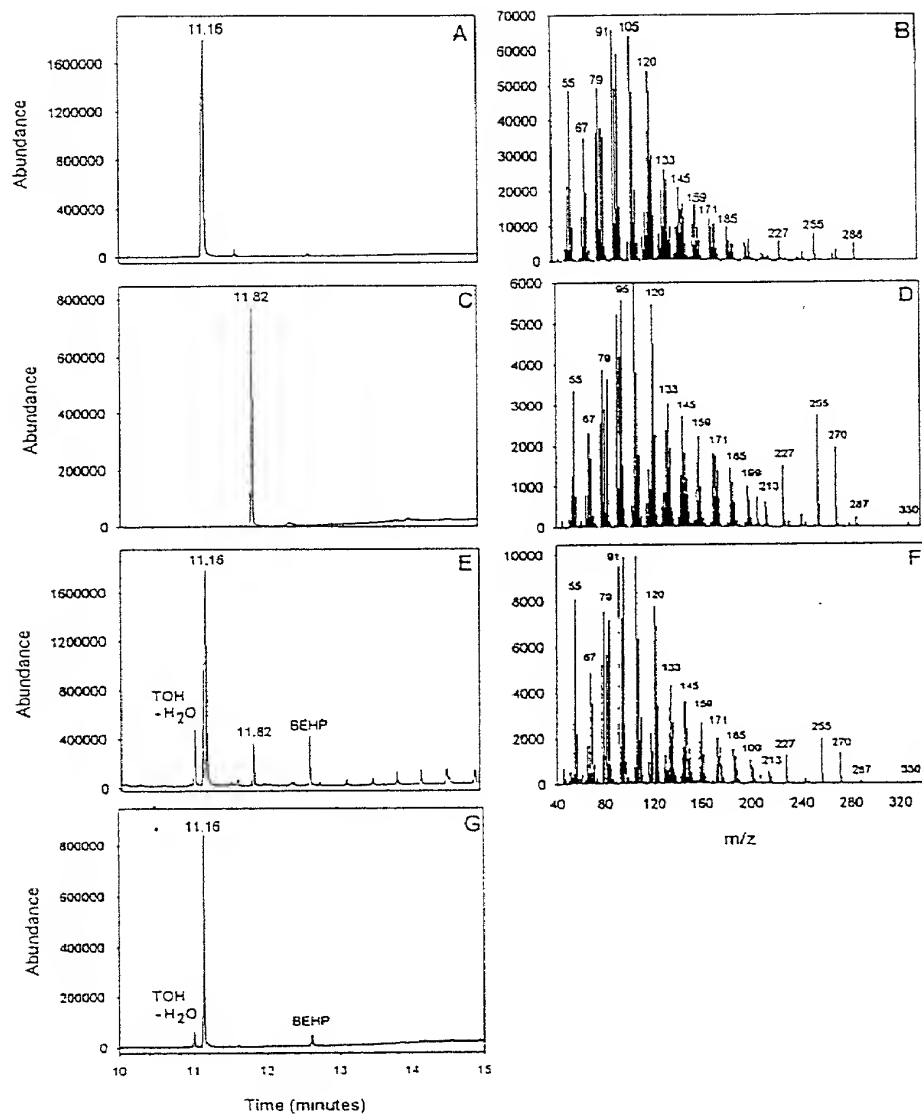
AT-FOR4
(SEQ ID NO: 37)

NH2- D F G W G K P -COOH
3' CTA AAA CCI ACC CCI TTT GG 5'

G G C C C
A A

AT-REV1
(SEQ ID NO: 38)

Figure 5



[illegible][illegible]

[illegible][illegible]

Figure 6
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TAX1 VVQVSFHH	QCV	CDORGAAQ	SL	KGLEHNA	B	G	EVLKS	LFQ	IN	RELVKLD	..	DP	KYLQF	FF	..	213
TAX2 VVQTRFHH	MSV	SDQKIGQ	HL	KCHGEMAR	G	EFKPS	.....	LEQ	IV	REHVKPE	..	DI	HYLOF	DF	..	207	
aa061522 ALQIGLSHKL	CDALSG	IFV	HSVA	AFAR	Q	TDE	.....	ITQ	SF	DLAKHFP	CD	IEH	.....	LN	95		
aa061523 VITICVSHKI	TDATSLAH	SI	RGHAE	ESS	RG	..	L	.....	GITH	DSF	TASEVFP	KPL	DEL	.....	PS	202	
aa061529 FICQSVHNAV	TDDGSLAH	SI	HTFA	EVS	SGA	KHVT	.....	R	QDFTRES	SVL	ISPAVLK	VPQ	GGPKVTF	DEH	APLR	223	
aa061723 SLQIRLCICI	CDQFGAHQ	SL	GSVA	AT	KRTG	KLAD	.....	PEV	VR	DRTFKPR	..	HF	PHVKY	PH	..	227	
aa061709 VVQCTFDHNV	ADVASHNH	SL	LSVA	EIS	SD	VPI	.....	SCV	QCF	RSLSLHPR	RP	LYHDP	PSIDQ	YHPVT	..	330	
aa0618062 VIOAQFHII	GDHFTHST	SI	HSVA	KACG	SVG	IKR	.....	VAH	QTE	GLAPLHPS	AK	VLH	.....	VF	190		
aa0627152 AHQISTHHT	FDDLSFKT	SL	ENH	SL	HL	EXPLS	.....	TPCH	D	TILKARD	PS	..	VAF	PH	..	219	
aa0629311 AVAFGISHNV	ADQGTIAS	SH	KDVA	AS	QCYL	SSS	.....	HHVT	QL	VSDSIFPR	OD	HI	.....	CE	206		
aa0612025 SLSVHVSNAI	VDQGSALH	SI	SEHGR	LA	..	GEPLR	.....	TVQ	FL	D	KILVAGCT	LPFFVSP	PKF	DK	..	200	
aa0620531 TITQ TALTHAV	CDQYGVAAQ	SI	HALTEL	LA	AG	KTEPS	.....	VKSVH	Q	RELVGKID	HKP	GRVPG	SHI	..	220		
aa064636 IFALRLHHTH	SDAFGLVQ	SH	TAVGEM	AR	G	GSAPS	.....	ILV	VM	Q	RELHAR	..	HF	QVTC	THH	216	
aa064432 IFQ LCFHHTII	ADQFGIVQ	SH	KATHEI	AS	G	AFAPS	.....	ILV	VM	Q	RELHAR	..	HF	QVTC	THH	210	
aa0640427 SIQFAQHNV	CDQGHAFEE	SH	NSVA	RI	AK	GLLPA	.....	ILV	VM	Q	RELHAR	..	HF	QVTC	THH	213	
aa0610318 AICICITDKI	ADNASIST	SI	RSVA	AT	AR	G	NOA	.....	AAHES	VF	AGAHFP	PAH	EAF	.....	206		
aa0610319 AVSVSVSHKI	CDIASLVT	SH	KDVA	TTAK	G	KNH	.....	STIE	..	F	ATTIYPP	PP	SHH	.....	216		
aa0640761 SIQIGTSN	SL	FDD	ISAYE	VI	NAHA	SHSHH	IKSN	SKIT	THK	KEDV	IKVH	D	RHLV	VRD	AVRETHAA	AI	231
TAX1 EFLRAP	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	251
TAX2 DFIRP	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	245
aa061522 NATGITKE	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	245
aa061523 KPRHDKKEVE	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	244
aa062929 RIFSFNRSI	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	293
aa061723 EYLFIEERSH	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	273
aa061709 SLPRPQETIH	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	273
aa061062 PPPSFEFG	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	244
aa0627152 EL VKFQDC	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	265
aa0629311 QFPTSK	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	242
aa0612025 EFDQPFLLIG	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	257
aa0620531 D	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	261
aa064636 EYDEVNDTKG	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	259
aa064432 EYDQVVDHKS	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	253
aa0640427 QFE	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	260
aa0610318 KLPADQAG	248
aa0610319 QFPTSDSDSH	239
aa0640761 LKQAMHTYQ	276

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ι	0.15	
κ	0.15	
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Δ	0.15	
Λ	0.15	
Σ	0.15	
Π	0.15	
Γ	0.15</	

[illegible]

Figure 6
page 5 of 5

TAX1 G . FDEVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	438
TAX2 G . FYEAD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	439
aa061522 PVY . EAD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	440
aa061523 GLY . DAD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	441
aa095293 DMH . DND5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	442
aa097723 EHYETAD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	443
aa017079 PVH . QVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	444
aa010062 PLY . EVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	445
aa027152 G . FAEVEYPM	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	446
aa099311 PFY . DVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	447
aa012025 P . HYGLD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	448
aa020531 GWFSGMD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	449
aa064636 G . FGEVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	450
aa094432 G . VERVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	451
aa006427 P . YQAND5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	452
aa010318 PLY . EAS5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	453
aa010319 PFY . EVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	454
aa040761 P . FHNVD5G8	QNAVSVSPVQ QQ9	ALANQ NYFLFLKPSK HKPBDQIKILH	FLGLSKIKSY	KIENEANHK . KYVAK	455

TAX1 V	ICNSKL	439
TAX2 ICNSKL	VHVSVS	440
aa061522 VHVSVS	VL	441
aa095293	VL	442
aa097723	VL	443
aa017079 LKI	VL	444
aa018062	VL	445
aa027152	VL	446
aa099311	VL	447
aa012025	VL	448
aa020531 H	VL	449
aa064636 VNSHYAIR PAL .	VL	450
aa094432 AVDSHHQTIQ SASK	VL	451
aa006427	VL	452
aa010318 VLV	VL	453
aa010319 VVA	VL	454
aa040761	VL	455

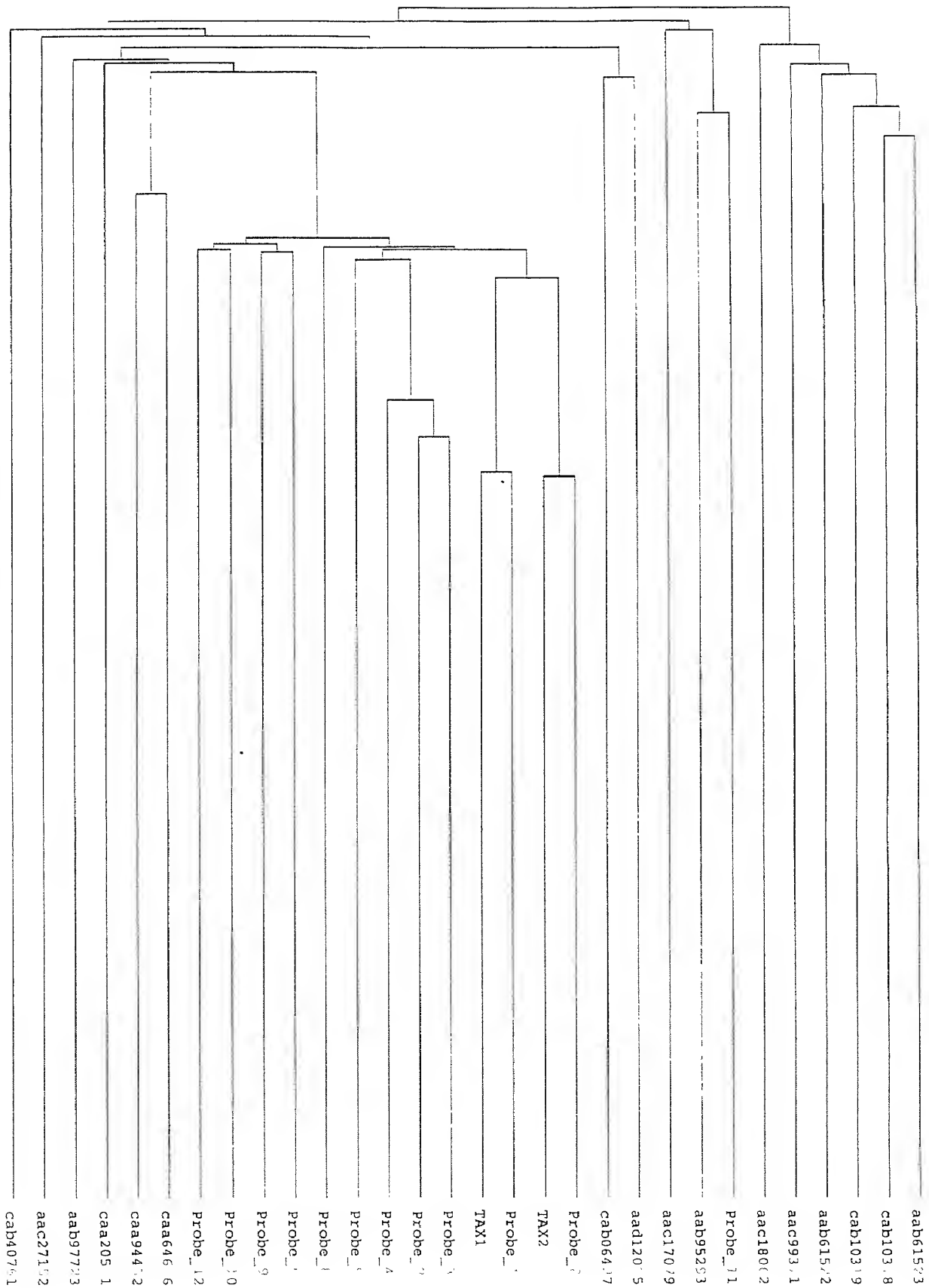


Figure 7

Figure 8

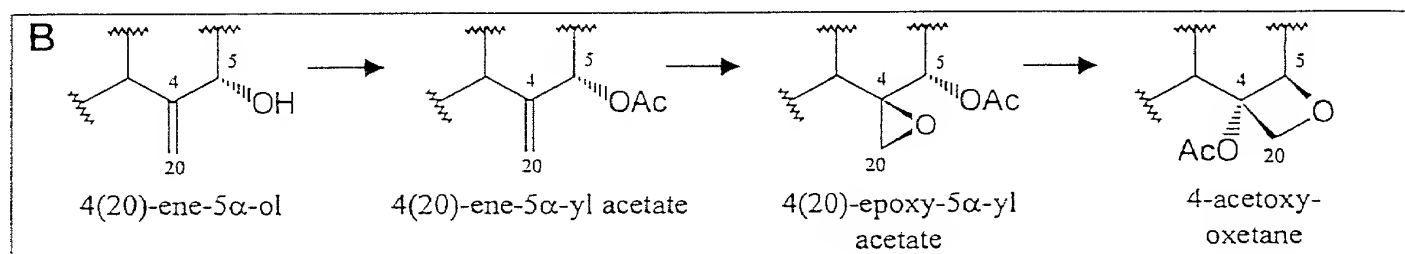
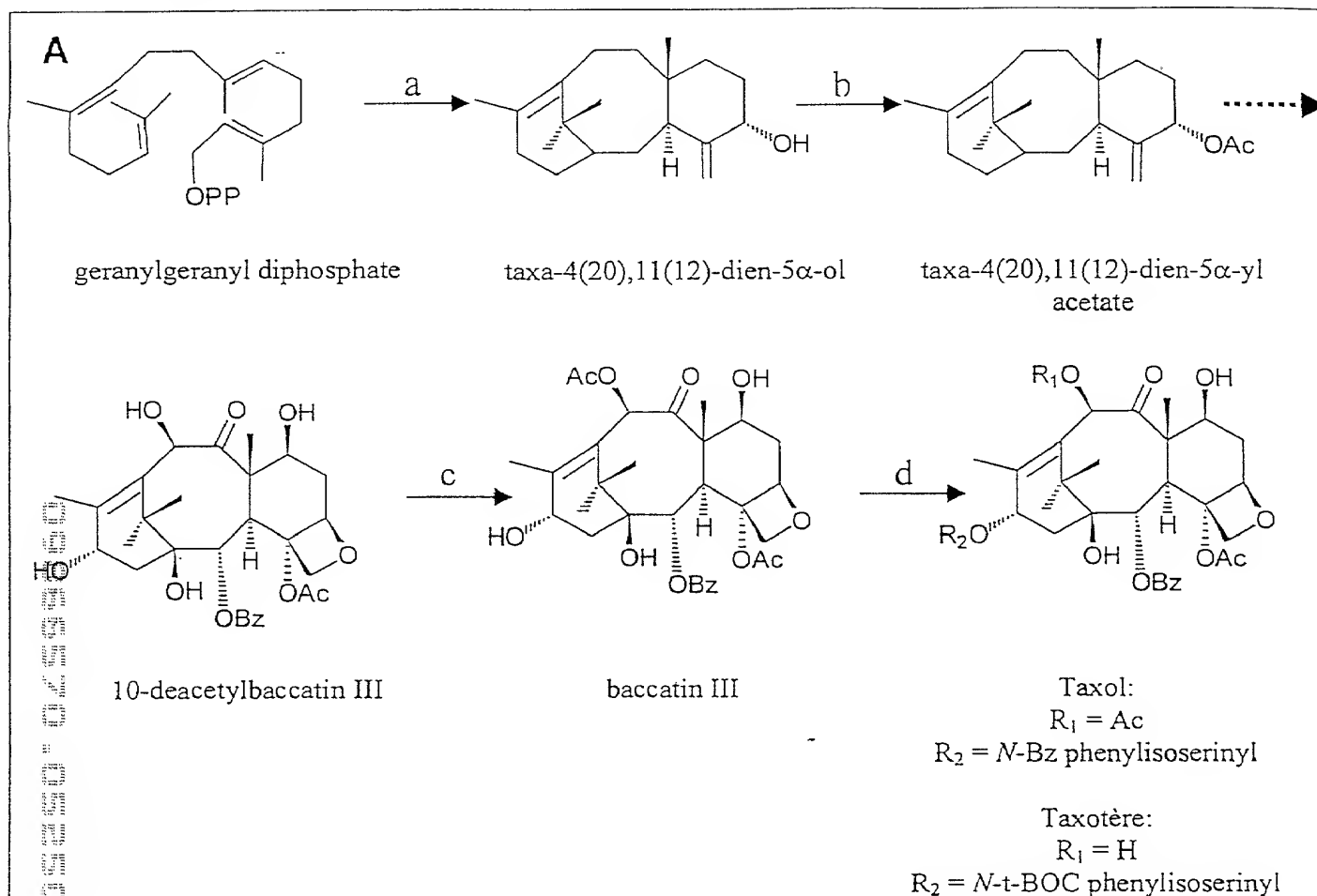


Figure 9

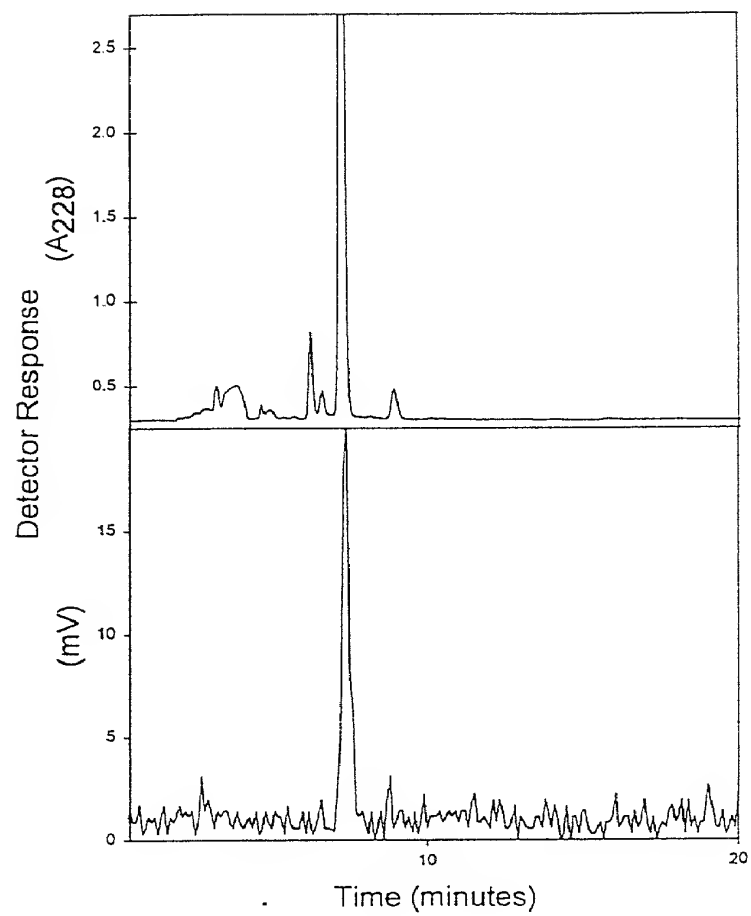


Figure 10

